

WHAT IS CLAIMED IS:

1. A portable wireless apparatus, comprising:

first radiating means;

second radiating means having about half electrical length of said first radiating means and provided so as to correspond the first radiating means from about center to one end of the first radiating means in parallel with leaving prescribed space;

connecting means for electrically connecting the one end of said first radiating means and one end of said second radiating means facing the one end of the first radiating means; and

feeding means for feeding to around a center of said first radiating means and the other end of said second radiating means so that the first radiating means and the second radiating means operate as an antenna.

2. The portable wireless apparatus according to claim 1, wherein

said second radiating means has an electrical length of  $1/4$  wavelength of a prescribed frequency.

3. The portable wireless apparatus according to claim 1, wherein:

said first radiating means is a plate;

said second radiating means is a box with an opening at the other end and a cavity inside; and

said second radiating means contains in said cavity said first radiating means from the center to the one end.

4. The portable wireless apparatus according to claims 1, wherein:

said first radiating means and said second radiating means are plates; and

one surface of said first radiating means is in parallel to one surface of said second radiating means.

5. A portable wireless apparatus, comprising:

a conductor board including at least a circuit board;

a shield case having about half electric length of said conductor board and with an opening at a top; wherein:

said shield case contains said conductor board from a center to one end so that the one end of the conductor board and a bottom of the shield case are electrically connected to each other; and

power is supplied to around a center of said conductor board and a top of said shield case so that the conductor board

and the shield case operate as an antenna.